



Customizing NetBoot and Network Installation

Session 810





Customizing NetBoot and Network Installation

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Introduction

- NetBoot comes in new flavors
- Mac OS 9 and X
- Network Installation supported
- New Tools for customizing
- This is part of Jaguar Server
(not on your Developer Seed)



What You Will Learn

- NetBoot 9
- NetBoot X
- Network Installation X
- How NetBoot works
- Tools for customization



NetBoot 9

- Same as earlier releases
 - We provide 4 languages
- Multiple images supported
- Images remain the same
 - Repackaging the Image/Boot Rom
- Same NetBoot Disk Application (NBDA) tool for modifying images



NetBoot X

- New to Mac OS X Jaguar Server
- Multiple images supported
- New tool for modifying images
- Booting over NFS



NetBoot X (Cont.)

- Classic is supported
- You will need to install Classic System Folder yourselves in to the X NetBoot Image
 - We do not know which language you will need
 - Make sure it is the supported version

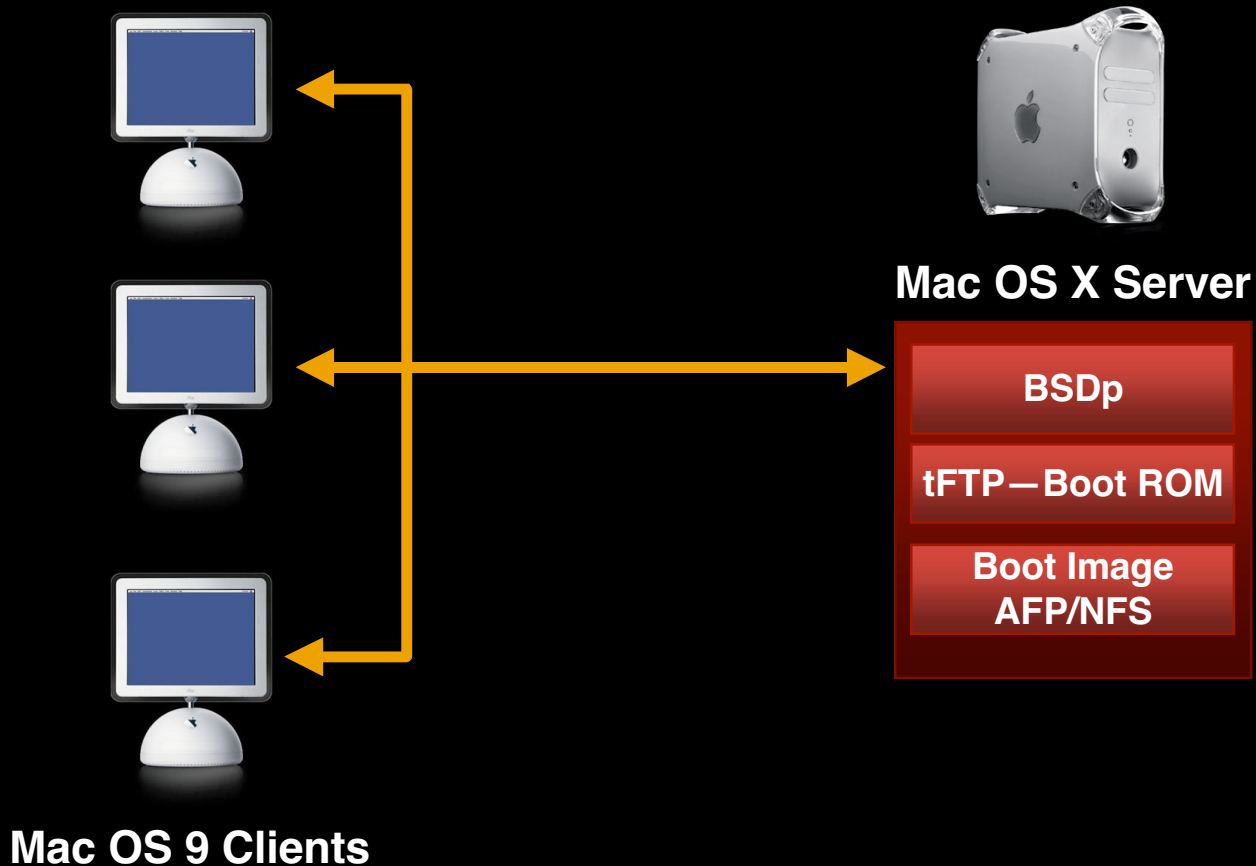


Network Installation

- In essence NetBoot X to the installer
- Create your own packages
 - Package Maker format
- Automate installation



How NetBoot Works



Tools

- The X Network Image Utility
 - Allows users to customize Mac OS X boot and installation images from installation Disks
- New System Preference and Control Panel



Sample Screenshot from Mac OS X Network Image Utility

NetBoot/NetInstall Image

To create an image, insert an OS X Install CD.

Image Name:

Image Type:

Description:

Image Size: GB

Enable unattended install of the image

Enable Classic on the image

System Folder path:

Default User Name:

Password:

Verify Password:



Startup Disk in Mac OS X



Automating Your Installations

- You can bypass portions of installation with XML
 - Little to some user interaction
- Powerful tool
 - Care must be taken to prevent inadvertent loss of data
- No defaults here
 - This is create your own
 - We will provide sample XML



Two Types of Automated Installs

- Minimal
 - No confirmation—Install starts immediately
 - Small Alert—Progress Bar—auto-restart
- Confirm
 - Panel displays what installed on what volume
 - Ok Button—auto-restart
 - User selects target volume (target = userselect)



installTool

```
installTool [-vollInfo] [-pkgInfo] [-h] [-v]  
[-V] -pkg <pathtopackage> - target <mountpoint>  
[-config] [-plist] [-f <pathtofile>] [-port <portname> ]  
[-I ISOCode ]
```

Parameters in brackets are optional

-pkgInfo

Returns a list of packages that can be installed

-vollInfo

Returns a list of volumes any given package can be
Installed on to



installTool

-h

Prints out help

-pkg

Package or metapackage to be installed

-target

Path to installation volume

-l

Default language

-config

When used with the -file command saves parameters to an XML file



installTool

-plist

Formats the output into XML

-f pathtofile

Path to XML file which can be used instead of command line parameters

-v

Verbose mode

-V

Version of the tool

-port

Name of DO port for progress info



Things to Watch Out For

- Network Installation pumps a lot of data
 - More than NetBoot
- Flag your Network Installation Images
 - HI provided—lessens user mistakes
- Pretest your setup



More Things to Watch Out For

- Only use truly unattended installs where required
 - Always give users a warning beforehand



Summary

- New version of NetBoot
 - NetBoot multiple images Mac OS 9 and X
- Network Installation
 - Uses NetBoot functionality
 - Use carefully



Roadmap

801 Mac OS X Server Overview
Overview of Server software offerings

Room A2
Mon., 3:30 pm

802 Mac OS X Server in Depth
In depth view of Server software

Room A2
Mon., 5:00pm

FF017 Server Services:

Room J
Fri., 5:00 pm



Who to Contact

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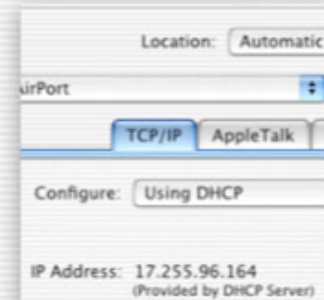
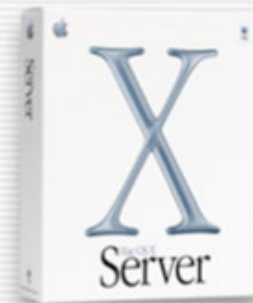
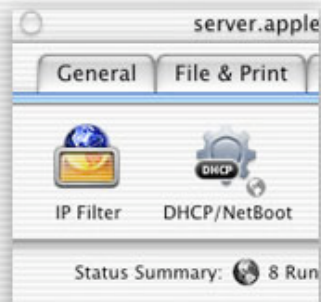
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Q&A



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<http://developer.apple.com/wwdc2002/urls.html>

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